

SEQUENCE LISTING

<110> ASTRAZENCA AB
DYAX CORP.

<120> ANTIBODIES

<130> N.9071A GCW/PT

<150> US 60/525,174

<151> 2003-11-28

<160> 527

<170> PatentIn version 3.2

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35 40 45

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu
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Ser Asp Asn His

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr
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Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

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35 40 45

Ser Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

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85

90

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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Arg Lys
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 35 40 45

Ile Tyr Asp Ala Ser Ser Asn Glu Arg Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Arg Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
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Pro Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Ser Ser Pro
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 35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Tyr
 50 55 60

Gly Ser Gly Tyr Gly Arg Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
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Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro
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Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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 35 40 45

Leu Ile Tyr Asp Ala Ser Lys Arg Ala Thr Gly Val Pro Val Arg Phe
 50 55 60

Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
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Pro Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys
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Gly Thr His Leu Pro Gly Val Asp Tyr
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Gly Tyr Ile Met Ala
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Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val Lys
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Gly

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Ser Tyr Pro Met Val
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Gly

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Val Gly Met Ser Thr Tyr Ala Phe Asp Ile
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21/197

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Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser
1 5 10

<210> 124
<211> 7
<212> PRT
<213> Homo sapiens

<400> 124

Gln Asp Arg Lys Arg Pro Ser
1 5

<210> 125

<211> 9

<212> PRT

<213> Homo sapiens

<400> 125

Gln Ser Trp Asp Ser Ser Ser Val Ile
1 5

<210> 126

<211> 11

<212> PRT

<213> Homo sapiens

<400> 126

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 127

<211> 7

<212> PRT

<213> Homo sapiens

<400> 127

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 128

<211> 9

<212> PRT

<213> Homo sapiens

<400> 128

Gln Gln Ala Asn Ser Phe Pro Leu Thr
1 5

<210> 129

<211> 14

<212> PRT

<213> Homo sapiens

<400> 129

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 130
<211> 7
<212> PRT
<213> Homo sapiens

<400> 130

Glu Val Asn Lys Arg Pro Ser
1 5

<210> 131
<211> 10
<212> PRT
<213> Homo sapiens

<400> 131

Ser Ser Tyr Ala Gly Arg Asn Phe Val Val
1 5 10

<210> 132
<211> 11
<212> PRT
<213> Homo sapiens

<400> 132

Gly Gly Asn Asn Ile Gly Thr Lys Ile Val Asn
1 5 10

<210> 133
<211> 7
<212> PRT
<213> Homo sapiens

<400> 133

Asp Asn Ser Asp Arg Pro Ser
1 5

<210> 134
<211> 11
<212> PRT
<213> Homo sapiens

<400> 134

Gln Leu Trp Asp Ser Ser Ser Asp His Pro Ile
1 5 10

<210> 135
<211> 123

<212> PRT

<213> Homo sapiens

<400> 135

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr
 20 25 30

Gly Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 136

<211> 118

<212> PRT

<213> Homo sapiens

<400> 136

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Ser Ile Ala Ala Ala Gly Thr Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 137

<211> 113

<212> PRT

<213> Homo sapiens

<400> 137

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30

Phe Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

<210> 138

<211> 119

<212> PRT

<213> Homo sapiens

<400> 138

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
 20 25 30

Tyr Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Gly Pro His Gly Gln Gly Gly Val Asp Ser Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

<210> 139

<211> 126

<212> PRT

<213> Homo sapiens

<400> 139

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Glu Tyr
 20 25 30

Phe Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala
 100 105 110

Phe Asp Ile Trp Gly Pro Gly Thr Val Val Thr Val Ser Ser
 115 120 125

<210> 140

<211> 118

<212> PRT

<213> Homo sapiens

<400> 140

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
 20 25 30

Arg Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Lys Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Gly Thr His Leu Pro Gly Val Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 141

<211> 113

<212> PRT

<213> Homo sapiens

<400> 141

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
 20 25 30

Ile Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

<210> 142

<211> 129

<212> PRT

<213> Homo sapiens

<400> 142

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

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65					70					75					80				
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys				
				85					90					95					
Ala	Arg	Glu	Gly	Ser	Ala	Gly	Val	Val	Lys	Gly	Pro	Ala	Arg	Tyr	Tyr				
			100					105					110						
Tyr	Tyr	Tyr	Met	Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser				
		115					120					125							

Ser

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<210> 143
<211> 126
<212> PRT
<213> Homo sapiens
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<400> 143

Glu 1	Val	Gln	Leu	Leu 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Lys	Tyr
Gln	Met	Thr 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ser	Val 50	Ile	Ser	Ser	Ser	Gly 55	Gly	Asp	Thr	Ala	Tyr 60	Ala	Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Asp	Arg 100	Gly	Tyr	Cys	Ser	Gly 105	Asn	Thr	Cys	Tyr	Ile 110	Asp	Ala
Phe	Asp	Ile 115	Trp	Gly	Gln	Gly	Thr	Met	Val	Thr	Val	Ser 125	Ser		

<210> 144

<211> 119
 <212> PRT
 <213> Homo sapiens

<400> 144

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Ala Phe Asp Ile Trp Gly Gln Gly
 100 105 110

Thr Met Val Thr Val Ser Ser
 115

<210> 145
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 145

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Leu Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Gly Ser Leu Ser Ser Gly Trp Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 146
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 146

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30

Arg Met Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Gly Leu Tyr Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

<210> 147
 <211> 118

<212> PRT

<213> Homo sapiens

<400> 147

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30

Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Leu Trp Phe Gly Glu Trp Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 148

<211> 122

<212> PRT

<213> Homo sapiens

<400> 148

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30

Ser Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 149
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 149

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Val Tyr
 20 25 30

Ser Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Asp Phe Trp Ser Gly Leu Glu Asp Val Trp Gly Lys Gly
 100 105 110

Thr Thr Val Thr Val Ser Ser
 115

<210> 150
 <211> 110
 <212> PRT

<213> Homo sapiens

<400> 150

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu
 20 25 30

Tyr Val Tyr Trp Phe Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Arg Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Pro Gly Trp Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 151

<211> 110

<212> PRT

<213> Homo sapiens

<400> 151

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

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Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
      100      105      110

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<210> 152
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 152

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Arg Ala
20 25 30

Phe Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Ser Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Arg
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

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<210> 153
<211> 112
<212> PRT
<213> Homo sapiens
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<400> 153

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Ser Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln

35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys
 100 105 110
 <210> 154
 <211> 108
 <212> PRT
 <213> Homo sapiens
 <400> 154
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser
 20 25 30
 Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ala Gly His Pro
 85 90 95
 Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105
 <210> 155
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 155

Gln Ser Glu Leu Thr Gln Ala Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15

Ser Ile Thr Leu Ser Cys Thr Gly Ala Thr Arg Asp Val Ser Trp Tyr
 20 25 30

Gln Gln His Pro Gly Lys Ala Pro Lys Leu Val Leu Tyr Glu Val Ser
 35 40 45

Ser Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Met Ser Gly
 50 55 60

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala
 65 70 75 80

Asp Tyr Tyr Cys Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val Phe
 85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 156

<211> 113

<212> PRT

<213> Homo sapiens

<400> 156

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Met His
 20 25 30

Arg Asn Gly His His Phe Phe Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Asn Arg Ala Pro Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 157
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 157

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile
 1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Gln Ala Ser Gln Asn Ile Asp Asn
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 158
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 158

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
 20 25 30

Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Asn Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 159
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 159

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 160
 <211> 108
 <212> PRT

<213> Homo sapiens

<400> 160

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg
 20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 161

<211> 106

<212> PRT

<213> Homo sapiens

<400> 161

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Leu
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Ser Ser Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 162
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 162

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Ser Leu Ser Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
 85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 163
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 163

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln
 1 5 10 15

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
 20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe

35 40 45
 Met Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Arg
 85 90 95
 Asn Phe Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110
 <210> 164
 <211> 108
 <212> PRT
 <213> Homo sapiens
 <400> 164
 Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
 1 5 10 15
 Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Thr Lys Ile Val
 20 25 30
 Asn Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Val Val Tyr
 35 40 45
 Asp Asn Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Leu Trp Asp Ser Ser Ser Asp His
 85 90 95
 Pro Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu
 100 105
 <210> 165
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 165

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15

Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30

Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45

Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60

Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80

Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95

Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110

Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125

Val Arg Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175

Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190

Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205

Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220

Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly

225	230										235				240			
Ser	Arg	Thr	Arg	Asp 245	Arg	Leu	Asp	Glu	Val 250	Lys	Glu	Gln	Val	Ala 255	Glu			
Val	Arg	Ala	Lys 260	Leu	Glu	Glu	Gln	Ala 265	Gln	Gln	Ile	Arg	Leu 270	Gln	Ala			
Glu	Ala	Phe 275	Gln	Ala	Arg	Leu	Lys 280	Ser	Trp	Phe	Glu	Pro 285	Leu	Val	Glu			
Asp	Met 290	Gln	Arg	Gln	Trp	Ala 295	Gly	Leu	Val	Glu	Lys 300	Val	Gln	Ala	Ala			
Val 305	Gly	Thr	Ser	Ala	Ala 310	Pro	Val	Pro	Ser	Asp 315	Asn	His						
<210>		166																
<211>		317																
<212>		PRT																
<213>		Homo sapiens																
<400>		166																
Met 1	Lys	Val	Leu	Trp 5	Ala	Ala	Leu	Leu	Val 10	Thr	Phe	Leu	Ala	Gly 15	Cys			
Gln	Ala	Lys	Val 20	Glu	Gln	Ala	Val	Glu 25	Thr	Glu	Pro	Glu	Pro 30	Glu	Leu			
Arg	Gln	Gln 35	Thr	Glu	Trp	Gln	Ser 40	Gly	Gln	Arg	Trp	Glu 45	Leu	Ala	Leu			
Gly 50	Arg	Phe	Trp	Asp	Tyr	Leu 55	Arg	Trp	Val	Gln	Thr 60	Leu	Ser	Glu	Gln			
Val 65	Gln	Glu	Glu	Leu	Leu 70	Ser	Ser	Gln	Val	Thr 75	Gln	Glu	Leu	Arg	Ala 80			
Leu	Met	Asp	Glu	Thr 85	Met	Lys	Glu	Leu	Lys 90	Ala	Tyr	Lys	Ser	Glu 95	Leu			
Glu	Glu	Gln	Leu 100	Thr	Pro	Val	Ala	Glu 105	Glu	Thr	Arg	Ala	Arg 110	Leu	Ser			
Lys	Glu	Leu	Gln	Ala	Ala	Gln	Ala	Arg	Leu	Gly	Ala	Asp	Met	Glu	Asp			

115		120		125
Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu				
130		135		140
Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg				
145		150		155
Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg				
	165		170	175
Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu				
	180		185	190
Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val				
	195		200	205
Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg				
	210		215	220
Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly				
	225		230	235
Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu				
	245		250	255
Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala				
	260		265	270
Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu				
	275		280	285
Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala				
	290		295	300
Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His				
	305		310	315
<210> 167				
<211> 317				
<212> PRT				
<213> Homo sapiens				
<400> 167				
Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys				

1	5	10	15
Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu	20	25	30
Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu	35	40	45
Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln	50	55	60
Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala	65	70	75
Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu	85	90	95
Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser	100	105	110
Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp	115	120	125
Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu	130	135	140
Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg	145	150	155
Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys	165	170	175
Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu	180	185	190
Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val	195	200	205
Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg	210	215	220
Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly	225	230	235
			240

Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
 245 250 255

Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
 260 265 270

Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
 275 280 285

Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
 290 295 300

Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 305 310 315

<210> 168

<211> 299

<212> PRT

<213> Homo sapiens

<400> 168

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg
 20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln
 35 40 45

Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met
 50 55 60

Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu
 65 70 75 80

Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu
 85 90 95

Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg
 100 105 110

Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln
 115 120 125

Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu
 130 135 140

Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala
 145 150 155 160

Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala
 165 170 175

Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala
 180 185 190

Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln
 195 200 205

Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg
 210 215 220

Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg
 225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala
 245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met
 260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly
 275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 290 295

<210> 169

<211> 299

<212> PRT

<213> Homo sapiens

<400> 169

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg
 20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln
 35 40 45
 Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met
 50 55 60
 Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu
 65 70 75 80
 Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu
 85 90 95
 Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys
 100 105 110
 Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln
 115 120 125
 Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu
 130 135 140
 Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala
 145 150 155 160
 Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala
 165 170 175
 Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala
 180 185 190
 Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln
 195 200 205
 Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg
 210 215 220
 Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg
 225 230 235 240
 Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala
 245 250 255
 Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met
 260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly
 275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 290 295

<210> 170
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 170

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg
 20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln
 35 40 45

Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met
 50 55 60

Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu
 65 70 75 80

Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu
 85 90 95

Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys
 100 105 110

Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln
 115 120 125

Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu
 130 135 140

Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys Leu Ala
 145 150 155 160

Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala
 165 170 175

Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala
180 185 190

Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln
195 200 205

Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg
210 215 220

Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg
225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala
245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met
260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
290 295

<210> 171

<211> 330

<212> DNA

<213> Homo sapiens

<400> 171

caagacatcc agatgaccca gtctccaggc accctgtctt tgtctccagg ggaaagagcc
60

accctctcct gcagggccag tcagagtatt ggcagccgct acttagcctg gtaccagcag
120

aaacctggcc aggctcccag gctcctcatc tatgatgcat ccaagagggc cactggcgtc
180

ccagtcaggt tcagcggcag tggatctggg acagacttca ctctcaccat cagcagcctg
240

gggcctgaag attttgcagt ttattactgc caacagggct acaactggcc tccgtggacg
300

ttcggccaag ggaccaaggt ggaaatcaaa
330

<210> 172

<211> 384
<212> DNA
<213> Homo sapiens

<400> 172
gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc tttacgtctt
60
tcttgcgctg cttccggatt cactttctct tattacgcta tgcagtgggt tcgccaagct
120
cctggtaaag gtttgagtg ggtttcttct ctctatcctt ctggtggcaa tacttcttat
180
gtgactccg ttaaaggtag cttcactatc tctagagaca actctaagaa tactctctac
240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggtagc
300
gggaattacg atttttggag tgcgggctac tactactact acatggacgt ctggggcaaa
360
gggaccacgg tcaccgtctc aagc
384

<210> 173
<211> 324
<212> DNA
<213> Homo sapiens

<400> 173
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc
60
accatcactt gccgggcaag tcagcgcata agaaagaatt tacattggta tcagcagaaa
120
ccagggaag cccctaacct cctgatctat gatgcatcca gtaacgaacg tgggggtcca
180
tcaaggttca gtggcagagg atctgggaca gagttcactc tcaccatcag cagtctacaa
240
cctgaagatc ttgcaactta ctactgtcaa cagagtttca gtagccctg gacgttcggc
300
caagggacca aggtggaaat caaa
324

<210> 174
<211> 345
<212> DNA
<213> Homo sapiens

<400> 174

gaagttcaat tgtagagtc tggtagcggt ctgttcagc ctggtggttc tttacgtctt
60

tcttgcgctg cttccggatt cactttctct aagtactcta tgcattgggt tcgccaagct
120

cctggtaaag gtttgagtg ggtttctggt atctattctt ctggtggcaa gactatttat
180

gctgactccg ttaaaggctg cttcactatc tctagagaca accctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatcgctt
300

gatcttgact actggggcca gggaaccctg gtcaccgtct caagc
345

<210> 175

<211> 324

<212> DNA

<213> Homo sapiens

<400> 175

caagacatcc agatgacca gtctccatcc tccctgtctg catctgtagg agacagagtc
60

accatcactt gccggacaag tcaggacatt agaaatcatt taggctgggt tcagcagaaa
120

ccagggaag cccctcagcg cctgattcgt gaagcatcca tttacaaaag tggggtccca
180

tcaacatttt acggcagtggt atatgggaga gaattcactc tcacaatcag cagcctgcag
240

cctgaggatt ttgcaacctt ttattgtcta caatatgatt ctttcccata cacctttggc
300

caggggacca agctggagat caaa
324

<210> 176

<211> 345

<212> DNA

<213> Homo sapiens

<400> 176

gaagttcaat tgtagagtc tggtagcggt ctgttcagc ctggtggttc tttacgtctt
60

tcttgcgctg cttccggatt cactttctct atgtacatga tggattgggt tcgccaagct
120

cctggtaaag gtttgagtg ggtttcttct atctggcctt ctggtggcca gacttggtat
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatccgtc
300

ctccttgact actggggcca gggaaccctg gtcaccgtct caagc
345

<210> 177
<211> 330
<212> DNA
<213> Homo sapiens

<400> 177
cagtacgaat tgactcagcc accctcagtg tctgggaccc ccgggcagag ggtcaccatc
60

tcttggttctg gaagcagttc caacatcgga agtgagtatg tgtactgggt ccagcagctc
120

ccaggaacgg cccccagact cctcatctat aggaatgatc agcggccctc aggggtccct
180

gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggcctccag
240

tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgcc tggttggtgt
300

tccggcgggc ggaccaagct gaccgtccta
330

<210> 178
<211> 369
<212> DNA
<213> Homo sapiens

<400> 178
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtggttc tttacgtctt
60

tcttgcgctg cttccggatt cactttctct ttttacggta tggtttgggt tcgccaagct
120

cctggtaaag gtttgagtg ggtttcttct atctctcctt ctggtggcta tactctttat
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaagatggg
300

agacggcccc actatggttc ggggaggtgg gcctactggg gccagggaac cctggtcacc
360

gtctcaagc
369

<210> 179
<211> 330
<212> DNA
<213> Homo sapiens

<400> 179
cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc
60

tcttggtctg gaagcagctc caacatcgga agtaatactg taaactggta ccagcagctc
120

ccaggaacgg cccccaaact cctcatctat aataataatc agcggccctc aggggtccct
180

gaccgattct ctgggtccaa gtctggcacc tcagcctccc tggccatcag tgggctccag
240

tctgaggatg aggctgatta ttactgtgca gcatggcatg acggcctgaa tgggtccggtg
300

ttcggcggag ggaccaagct gacogtccta
330

<210> 180
<211> 354
<212> DNA
<213> Homo sapiens

<400> 180
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtggttc tttacgtctt
60

tcttgcgctg cttccggatt cactttctct cgttacctta tgatgtgggt tcgccaagct
120

cctggtaaaag gtttgagtg ggtttctgtt atctctcctt ctggtggccg tacttggtat
180

gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgt gaggagtata
300

gcagcagctg gaactgacta ctggggccag ggaaccctgg tcaccgtctc aagc
354

<210> 181
<211> 321
<212> DNA
<213> Homo sapiens

<400> 181

gacatccaga tgacccagtc tccagccacc ctgtctttgt ctccagggga aagagccacc
60ctctcttgta aggccagtca gagtgttcgc gccttcatag cctggtacca gcagaaacct
120ggccaggctc ccaggctcct catctctggg gcatccaaca gggccactgg catcccagac
180aggttcagtg gcggtgggtc tgggacagac ttactctca ccatcagcag actggagcct
240gaagattttg cagtgtatta ctgtcagcag tacggtagtt cacggtacac tttggccag
300gggaccaagc tggagatcaa a
321

<210> 182

<211> 339

<212> DNA

<213> Homo sapiens

<400> 182

gaagttcaat tgttagagtc tgggtggcgg cttgttcagc ctggtgggtc tttacgtctt
60tcttgcgctg cttccggatt cactttctct aattacttta tgatttgggt tcgccaagct
120cctggtaaag gtttggagtg ggtttcttgg atctctcctt ctggtggcac tactcagtat
180gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac
240ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc
300ggctactggg gccagggaac cctggtcacc gtctcaagc
339

<210> 183

<211> 333

<212> DNA

<213> Homo sapiens

<400> 183

gacatccaga tgacccagtc tccatcctcc ctgcccgtca cccctggaga gccggcctcc
60atctcctgca ggtctagtca gagcctccta catagtagtg gatacaacta tttggattgg
120tacctgcaga agccaggaca gtctccacaa ctctgattt atttgggttc taatcggggc
180

tccgggggtcc ctgacaggtt cactggcagt ggatcaggca cagattttac actgaaaatc
240

agcagagtgg aggctgagga tgttgggggtt tattactgca tgcaagctct acaaaccccc
300

actttcggcg gagggaccaa ggtggacatc aaa
333

<210> 184
<211> 357
<212> DNA
<213> Homo sapiens

<400> 184
gaagttcaat tgtagagtc tggtagcggt ctgttcagc ctggtggttc ttacgtctt
60

tcttgcgtg ctccggatt cactttctct gcttactata tgggttgggt tcgccaagct
120

cctggtaaag gtttgagtg ggtttctgtt atccgtcctt ctggtggcaa gactaagtat
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcccg
300

catggtcagg ggggtgttga ctctggggc caggaaccc tggtcaccgt ctcaagc
357

<210> 185
<211> 321
<212> DNA
<213> Homo sapiens

<400> 185
gacatccaga tgaccagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc
60

ctctcctgta gggccagtca gagtgttagc agcaacttag cctggtacca gcagaaacct
120

ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg cgtcccagcc
180

aggttcagtg gcagtgggtc tgggacagac ttactctct ccatcagcag cctgcagcct
240

gaagactttg caacttatta ctgtcaacag tatgctggtc accccatcac cttcggccaa
300

gggacccgac tggagattaa a
321

<210> 186
<211> 378
<212> DNA
<213> Homo sapiens

<400> 186
gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc ttacgtctt
60
tcttgcgctg cttccggatt cactttctct gactacttta tgacttgggt tcgccaagct
120
cctggtaaag gtttgagtg ggtttcttct atcgcctctt ctggtggcaa gactcggtat
180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagttagt
300
cgctactata ataatggtgc ttatcgctt gatgcatttg atatctgggg ccagggaca
360
gtggtcaccg tctcaagc
378

<210> 187
<211> 315
<212> DNA
<213> Homo sapiens

<400> 187
cagagcgaat tgactcaggc tgcctccgtg tctgggtctc ctggacagtc gatcacctc
60
tcctgcactg gagccaccag ggacgtctcc tggtagcagc aacaccacag caagggcccc
120
aaactcgtcc tttatgaagt cagtagtcgc ccctcaggcg ttccgatcg cttctctggc
180
tccatgtctg gcaacaaggc ctccctgacc atctctggac tccaggctga ggacgaggct
240
gattattact gtcctcaac cacaagtcgc gccctcgcg tggttttcgg cggagggacc
300
aaactgaccg tccta
315

<210> 188
<211> 354
<212> DNA
<213> Homo sapiens

<400> 188
gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc tttacgtctt
60
tcttgcgctg cttccggatt cactttctct gcttaccgta tggcttgggt tcgccaagct
120
cctggtaaag gtttgagtg ggtttcttat atctcttctt ctggtggcgt tacttcttat
180
gctgactcgg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240
ttgcagatga agagcttaag ggctgaggac actgcagtct actattgtgc gagaggcacg
300
cacctcccgg gggttgacta ctggggccag ggaaccctgg tcaccgtctc aagc
354

<210> 189
<211> 336
<212> DNA
<213> Homo sapiens

<400> 189
gacatccaga tgaccagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc
60
atctcctgca gatctagtca gagcctcatg cataggaatg gacaccactt cttcgattgg
120
tacctgcaga agccagggca gtctccacag ctctgatct attgggcttc taatcgggcc
180
cccggggctc ctgacagggt cagtggcagt ggatcaggca cagactttac actaaaaatc
240
agcagagtgg aggctgagga tgttgggatt tattactgca tgcaagctct acaaaccctg
300
tacacttttg gccaggggac caagctggag atcaaa
336

<210> 190
<211> 339
<212> DNA
<213> Homo sapiens

<400> 190
gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc tttacgtctt
60
tcttgcgctg cttccggatt cactttctct ggttacatta tggcttgggt tcgccaagct
120

cctggtaaag gtttggagtg ggtttctggt atcggttctt ctggtggcct tactgcttat
180

gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc
300

ggctactggg gccagggaac cctggtcacc gtctcaagc
339

<210> 191

<211> 321

<212> DNA

<213> Homo sapiens

<400> 191

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atctcttgcc aggcgagtca aaacattgac aactatttaa attggtatca gcagaaacca
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca
180

aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
240

gaagattttg caacttacta ctgtcaacag agttacagta cccctcgaac gttcggccaa
300

gggaccaagg tggaaatcaa a
321

<210> 192

<211> 387

<212> DNA

<213> Homo sapiens

<400> 192

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120

cctggtaaag gtttggagtg ggtttctggt atctggtctt ctggtggcct tacttattat
180

gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagagggc
300

tcggccggag tggttaaagg gccggcccgg tactactact actacatgga cgtctggggc
360

aaagggacca cggtcaccgt ctcaagc
387

<210> 193
<211> 330
<212> DNA
<213> Homo sapiens

<400> 193
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tcttggttctg gaagcagctc caacatcgga agtaattatg tatactggta ccagcagctc
120

ccaggaacgg cccccaaact cctcatctat aggaataatc agcggccctc aggggtccct
180

gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag
240

tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgaa tgcctgggtg
300

ttcggcggag ggaccaagct gaccgtccta
330

<210> 194
<211> 378
<212> DNA
<213> Homo sapiens

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120

cctggtaaag gtttgagtg ggtttctggt atctcttctt ctggtggcga tactgcttat
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcgg
300

ggttattgta gtggtaatac ttgctatatt gatgcttttg atatctgggg ccaagggaca
360

atggtcaccg tctcaagc
378

<210> 195
<211> 333
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<400> 195
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atctcctgca agtctagtca ggcctcctg catagtaatg gatacaacta tttagattgg
120
tacctgcaga aaccagggca gtctccacag ctctgatct ctttgggttc taatcgggcc
180
tccgggggtcc ctgccagggt cagtggcagt ggctcaggca cagattttac actgaaaatc
240
agcagagtgg aggctgagga tgttggagtt tactactgca tgcaagctct acaaactatc
300
accttcggcc aaggacacg actggagatt aaa
333

<210> 196
<211> 357
<212> DNA
<213> Homo sapiens

<400> 196
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tcttgcgctg cttccggatt cactttctct ccttactgga tgttttgggt tcgccaagct
120
cctggtaaag gtttggagtg ggtttctggt atcgtttctt ctggtggcat gactggttat
180
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagtgggg
300
atgtccacct atgcttttga tatctggggc caagggacaa tggtcaccgt ctcaagc
357

<210> 197
<211> 321
<212> DNA
<213> Homo sapiens

<400> 197
gacatccaga tgaccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc
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atcacttgcc gggccagtca gagtattagt aggtggttgg cctggtatca gcagaaacca
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca
180

aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
240

gaagattttg caacttacta ctgtcaacag agttacagta ccccgctcac tttcggcgga
300

gggaccaagg tggagatcaa a
321

<210> 198

<211> 354

<212> DNA

<213> Homo sapiens

<400> 198

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tcttgcgctg cttccggatt cactttctct cattacggta tgtcttgggt tcgccaagct
120

cctggtaaag gtttgagtg ggtttcttct atccgttctt ctggtggccg tacttggtat
180

gctgactcgc ttaaaggtcg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagttt actattgtgc gaaaggctcc
300

cttagcagtg gctgggacta ctggggccag ggaaccctgg tcaccgtctc aagc
354

<210> 199

<211> 318

<212> DNA

<213> Homo sapiens

<400> 199

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acctgcgctg gagatgaatt gggtataaaa tatgcttcct ggtatcagca gaagccaggc
120

cagtcacctg tgctggatc ctatcaagat aggaagcggc cctcagggat ccctgagcga
180

ttctctggct cccactctgg gaacacagcc actctgacca tcagcgggac ccaggctctc
240

gatgaggctg actattactg tcagtcgtgg gacagcagct ctgtgatatt cggcggcggg
300

accaaggtga ccgtccta
318

<210> 200
<211> 339
<212> DNA
<213> Homo sapiens

<400> 200
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tcttgcgctg cttccggatt cactttctct aattaccgta tggagtgggt tcgccaagct
120

cctggtaaag gtttgagtg ggtttcttct atctggtctt ctggtggcct tactaaggag
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcctg
300

taccggtggg gccagggaac cctggtcacc gtctcaagc
339

<210> 201
<211> 330
<212> DNA
<213> Homo sapiens

<400> 201
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tcctgcactg gaaccagcag tgacgttggg ggttataact atgtctcctg gtaccaacag
120

catccaggca aagcccccaa attcatgatt tatgaggtca ataagcggcc ctcaggggtc
180

cctgatcgct tctctggctc caagtctggc aacacggcct ccctgaccgt ctctgggctc
240

caggctgagg atgaggctga ttattactgc agctcatatg caggcaggaa ctttgtggta
300

ttcggcggag ggaccaagct gaccgtccta
330

<210> 202

<211> 366
<212> DNA
<213> Homo sapiens

<400> 202
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tcttgcgctg cttccgatt cactttctct tggtagtcta tggtttggt tcgccaagct
120
cctggtaaag gtttgagtg ggtttctct atcggtcctt ctggtggcat gactcggtat
180
gctgactccg ttaaaggctg cttactatc ttagagaca actctaagaa tactctctac
240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcaa
300
gggattacta tggttcaggg agctatgggc tactggggcc aggaaccct ggtcaccgtc
360
tcaagc
366

<210> 203
<211> 324
<212> DNA
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<400> 203
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acctgtgggg gaaacaacat tggtagtaaa attgtaaact ggtaccagca gaggccaggc
120
caggcccttg tgggtgtcgt ctatgataat agcgaccggc cctcaggat ccctgagcga
180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg
240
gatgaggccg actattactg tcagctgtgg gatagtagta gtgaccatcc gatcttcgga
300
actgggacca aggtcaccgt ccta
324

<210> 204
<211> 357
<212> DNA
<213> Homo sapiens

<400> 204

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60

tcttgcgctg cttccggatt cactttctct gtttactcta tggcttgggt tcgccaagct
120

cctggtaaag gtttggagtg ggtttctggt atctggcctt ctggtggccc tactgcttat
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagat
300

ttttggagtg gtttggagga cgtctggggc aaagggacca cggtcaccgt ctcaagc
357

<210> 205

<211> 321

<212> DNA

<213> Homo sapiens

<400> 205

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atcacttgcc gggcaagtca gagcattagc agctatttaa attggtatca gcagaaacca
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca
180

aggttcagtg gcagtggatc tgggacagaa ttctctctct ccatcagcag cctgcagcct
240

gaagattttg caacttacta ttgtcaacag gctaacagtt tccctctcac ttctggcgga
300

gggaccaagg tggagatcaa a
321

<210> 206

<211> 354

<212> DNA

<213> Homo sapiens

<400> 206

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tcttgcgctg cttccggatt cactttctct tggtagctta tgcatgggt tcgccaagct
120

cctggtaaag gtttggagtg ggtttcttct atcgttcctt ctggtggcac tactgtttat
180

gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaccta
300

tggttcgggg agtgggacta ctggggccag ggaaccctgg tcaccgtctc aagc
354

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<211> 6
<212> PRT
<213> Homo sapiens

<400> 207

Gly Val Leu Asp His Tyr
1 5

<210> 208
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Gly Ile Leu His Asp Tyr
1 5

<210> 209
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Gly Val Leu Leu Asp Lys
1 5

<210> 210
<211> 6
<212> PRT
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<400> 210

Gly Val Leu Phe Asp Asn
1 5

<210> 211
<211> 11
<212> PRT
<213> Homo sapiens

<400> 211

Arg Ala Ser Gln Asn Ile His Thr Trp Leu Ala
1 5 10

<210> 212

<211> 16

<212> PRT

<213> Homo sapiens

<400> 212

Arg Ser Ser Gln Ser Leu Ala Ser Ser Asp Gly Asn Met Tyr Leu Asn
1 5 10 15

<210> 213

<211> 11

<212> PRT

<213> Homo sapiens

<400> 213

Arg Thr Ser Gln Gly Ile Arg Asn His Leu Gly
1 5 10

<210> 214

<211> 11

<212> PRT

<213> Homo sapiens

<400> 214

Arg Ala Ser Gln Thr Ile Ser Arg Tyr Leu Asn
1 5 10

<210> 215

<211> 16

<212> PRT

<213> Homo sapiens

<400> 215

Arg Ser Ser Arg Asn Leu Leu His Arg Asn Gly Asn Asn Tyr Leu Asp
1 5 10 15

<210> 216

<211> 11

<212> PRT

<213> Homo sapiens

<400> 216

Arg Ala Ser His Gly Ile Asn Gly Tyr Leu Ala
1 5 10

<210> 217
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 <212> PRT
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<400> 217

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr
 100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 218
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 218

Arg Thr Ser Gln Asp Ile Gly Asn His Leu Ala
 1 5 10

<210> 219
 <211> 11
 <212> PRT

<213> Homo sapiens

<400> 219

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 220

<211> 11

<212> PRT

<213> Homo sapiens

<400> 220

Arg Ala Ser Gln Asp Ile Tyr Arg Trp Leu Val
1 5 10

<210> 221

<211> 11

<212> PRT

<213> Homo sapiens

<400> 221

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 222

<211> 11

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<213> Homo sapiens

<400> 222

Arg Ala Ser Gln Asp Ile Arg Ser Tyr Leu Ala
1 5 10

<210> 223

<211> 11

<212> PRT

<213> Homo sapiens

<400> 223

Arg Ala Ser Gln Asp Ile Ser Ile His Leu Ala
1 5 10

<210> 224

<211> 11

<212> PRT

<213> Homo sapiens

<400> 224

Arg Ala Ser Lys Ser Val Ala Ser Tyr Val Ala
 1 5 10

<210> 225
 <211> 16
 <212> PRT
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<400> 225

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Asp
 1 5 10 15

<210> 226
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<400> 226

Arg Ala Ser Arg Gly Ile Arg Asn Asn Leu Ala
 1 5 10

<210> 227
 <211> 112
 <212> PRT
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<400> 227

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 228
<211> 11
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<400> 228

Arg Ala Ser Gln Gly Ile Thr Asn Tyr Leu Ala
1 5 10

<210> 229
<211> 11
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<400> 229

Arg Ala Ser Gln Val Ile Gly Asn Tyr Leu Ala
1 5 10

<210> 230
<211> 11
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Arg Ala Ser Gln Ser Val Lys Met Asn Leu Ala
1 5 10

<210> 231
<211> 11
<212> PRT
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<400> 231

Arg Ala Ser Gln Thr Ile Asn Asn Trp Leu Ala
1 5 10

<210> 232
<211> 11
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<400> 232

Arg Ala Ser Gln Asp Ile Glu Asn Tyr Leu Ala
1 5 10

<210> 233
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<212> PRT
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<400> 233

Arg Ala Ser Gln Asp Ile His Thr Trp Leu Ala
1 5 10

<210> 234
<211> 11
<212> PRT
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<400> 234

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala
1 5 10

<210> 235
<211> 11
<212> PRT
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<400> 235

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Ala
1 5 10

<210> 236
<211> 11
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<400> 236

Arg Ala Ser Gln Asp Ile Arg Asn Ala Leu Gly
1 5 10

<210> 237
<211> 112
<212> PRT
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<400> 237

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Gly Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 238
<211> 11
<212> PRT
<213> Homo sapiens

<400> 238

Arg Ala Ser Gln Asp Ile Arg Asn Asp Leu Gly
1 5 10

<210> 239
<211> 11
<212> PRT
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<400> 239

Arg Ala Ser Gln Ser Val Asp Ser Trp Leu Ala
1 5 10

<210> 240
<211> 7
<212> PRT
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<400> 240

Gly Ala Ser Ser Leu Gln Ser
1 5

<210> 241
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<212> PRT
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<400> 241

Lys Val Ser Asp Arg Asp Ser

1

5

<210> 242
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 242

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 243
 <211> 7
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 <213> Homo sapiens

<400> 243

Ala Thr Ser Thr Leu His Ser
 1 5

<210> 244
 <211> 7
 <212> PRT
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<400> 244

Met Gly Ser Asn Arg Ala Ser
 1 5

<210> 245
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 245

Ala Ala Ser Lys Leu Gln Ser
 1 5

<210> 246
 <211> 112
 <212> PRT
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<400> 246

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 247
 <211> 7
 <212> PRT
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<400> 247

Gly Ala Ser Thr Val Gln Ser
 1 5

<210> 248

<211> 7
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<400> 248

Ala Ala Ser Ser Leu Gln Asn
1 5

<210> 249
<211> 7
<212> PRT
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<400> 249

Ala Ala Phe Asn Leu Gln Ser
1 5

<210> 250
<211> 7
<212> PRT
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<400> 250

Ala Ala Ser Thr Leu Gln Thr
1 5

<210> 251
<211> 7
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<400> 251

Asp Ala Ser Asn Arg Ala Thr
1 5

<210> 252
<211> 7
<212> PRT
<213> Homo sapiens

<400> 252

His Ala Ser Thr Leu Gln Ser
1 5

<210> 253
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<213> Homo sapiens

<400> 253

Gly Ala Tyr Lys Leu Gln Tyr
1 5

<210> 254

<211> 7

<212> PRT

<213> Homo sapiens

<400> 254

Gly Ala Ser His Leu Gln Ser
1 5

<210> 255

<211> 7

<212> PRT

<213> Homo sapiens

<400> 255

Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 256

<211> 7

<212> PRT

<213> Homo sapiens

<400> 256

Lys Thr Ser Asn Leu Gln Ser
1 5

<210> 257

<211> 7

<212> PRT

<213> Homo sapiens

<400> 257

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 258

<211> 7

<212> PRT

<213> Homo sapiens

<400> 258

Val Ala Ser Ser Leu Gln Asp
1 5

<210> 259
<211> 7
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<400> 259

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 260
<211> 7
<212> PRT
<213> Homo sapiens

<400> 260

Thr Ala Ser Arg Leu Gln Ser
1 5

<210> 261
<211> 7
<212> PRT
<213> Homo sapiens

<400> 261

Lys Ala Ser Ser Leu Gln Ser
1 5

<210> 262
<211> 9
<212> PRT
<213> Homo sapiens

<400> 262

Gln Gln Ala Asn Ser Phe Pro Phe Ala
1 5

<210> 263
<211> 9
<212> PRT
<213> Homo sapiens

<400> 263

Met Gln Gly Thr His Trp Pro Pro Thr
1 5

<210> 264
<211> 112

<212> PRT

<213> Homo sapiens

<400> 264

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 265

<211> 9

<212> PRT

<213> Homo sapiens

<400> 265

Leu Gln Tyr Asn Asn Tyr Pro Phe Thr
1 5

<210> 266

<211> 8

<212> PRT

<213> Homo sapiens

<400> 266

Met Gln Ala Leu Gln Ala Trp Thr
1 5

<210> 267

<211> 9

<212> PRT

<213> Homo sapiens

<400> 267

Gln Gln Tyr Asp Ser Tyr Pro Phe Thr
1 5

<210> 268

<211> 9

<212> PRT

<213> Homo sapiens

<400> 268

Gln Gln Tyr Asp Ala Phe Pro Phe Thr
1 5

<210> 269

<211> 9

<212> PRT

<213> Homo sapiens

<400> 269

Gln Gln Tyr Lys Thr Tyr Pro Phe Thr
1 5

<210> 270

<211> 9

<212> PRT

<213> Homo sapiens

<400> 270

Gln Gln Ala Asn Ser Phe Pro Trp Thr
1 5

<210> 271

<211> 9

<212> PRT

<213> Homo sapiens

<400> 271

Leu Gln Phe Asn Thr Tyr Pro Phe Thr
1 5

<210> 272

<211> 9

<212> PRT

<213> Homo sapiens

<400> 272

Leu Gln His Asp Ser Tyr Pro Phe Thr

1 5

<210> 273
<211> 9
<212> PRT
<213> Homo sapiens

<400> 273

Gln Gln Tyr Glu Ser Tyr Pro Phe Thr
1 5

<210> 274
<211> 8
<212> PRT
<213> Homo sapiens

<400> 274

Gln Gln Tyr Tyr Asn Pro Tyr Thr
1 5

<210> 275
<211> 9
<212> PRT
<213> Homo sapiens

<400> 275

Leu Gln Pro Glu Thr Tyr Pro Trp Thr
1 5

<210> 276
<211> 9
<212> PRT
<213> Homo sapiens

<400> 276

Leu Gln Tyr Gln Thr Tyr Pro Phe Thr
1 5

<210> 277
<211> 9
<212> PRT
<213> Homo sapiens

<400> 277

Gln Gln Ser Ser Ser Ile Pro Tyr Thr
1 5

<210> 278

<211> 9
<212> PRT
<213> Homo sapiens

<400> 278

Gln Gln Tyr Ala Asn Trp Pro Phe His
1 5

<210> 279
<211> 9
<212> PRT
<213> Homo sapiens

<400> 279

Gln Gln Tyr Lys Ala Phe Pro Trp Thr
1 5

<210> 280
<211> 9
<212> PRT
<213> Homo sapiens

<400> 280

Gln Gln Tyr Ser Ser Tyr Pro Phe Thr
1 5

<210> 281
<211> 9
<212> PRT
<213> Homo sapiens

<400> 281

Leu Gln His Asn Thr Tyr Pro Leu Thr
1 5

<210> 282
<211> 9
<212> PRT
<213> Homo sapiens

<400> 282

Leu Gln His Asn Ser Tyr Pro Leu Thr
1 5

<210> 283
<211> 9
<212> PRT
<213> Homo sapiens

<400> 283

Gln Gln Tyr Ala Thr Leu Pro Arg Thr
1 5

<210> 284

<211> 9

<212> PRT

<213> Homo sapiens

<400> 284

Leu Gln Tyr Asn Ser Tyr Pro Phe Thr
1 5

<210> 285

<211> 9

<212> PRT

<213> Homo sapiens

<400> 285

Leu Gln Gln Lys Asn Tyr Pro Leu Thr
1 5

<210> 286

<211> 9

<212> PRT

<213> Homo sapiens

<400> 286

Gln Gln Tyr Lys Ser Phe Pro Phe Thr
1 5

<210> 287

<211> 108

<212> PRT

<213> Homo sapiens

<400> 287

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asn Ile His Thr
20 25 30

Trp Leu Ala Trp Phe Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
 85 90 95
 Phe Ala Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

<210> 288
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 288

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Ala Ser
 20 25 30
 Ser Asp Gly Asn Met Tyr Leu Asn Trp Phe His Gln Arg Pro Gly Gln
 35 40 45
 Ser Pro Arg Arg Leu Ile Tyr Lys Val Ser Asp Arg Asp Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Gly Thr His Trp Pro Pro Thr Phe Gly Pro Gly Thr Lys Val Asp Ile
 100 105 110

Lys

<210> 289
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 289

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Gly Ile Arg Asn
 20 25 30

His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro
 85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 290

<211> 108

<212> PRT

<213> Homo sapiens

<400> 290

Gln Asp Ile Gln Met Thr Gln Ser Pro Pro Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Thr Ile Ser Arg
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Thr Ser Thr Leu His Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Gly Leu Gln
 65 70 75 80

Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Asn Tyr Pro
 85 90 95

Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 291
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 291

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Leu Leu His
 20 25 30

Arg Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Ala Trp Thr Phe Gly Pro Gly Thr Arg Leu Asp Ile Lys
 100 105 110

<210> 292
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 292

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Asn Gly
 20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Arg Ala Pro Lys Ser Leu
 35 40 45

Ile Tyr Ala Ala Ser Lys Leu Gln Ser Gly Val Pro Ser Lys Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Asn Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 293
<211> 112
<212> PRT
<213> Homo sapiens

<400> 293

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 294
<211> 108
<212> PRT
<213> Homo sapiens

<400> 294

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Gly Asn
 20 25 30

His Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Tyr Asp Ala Phe Pro
 85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 295
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 295

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
 35 40 45

Ile Tyr Gly Ala Ser Thr Val Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Lys Thr Tyr Pro
 85 90 95

Phe Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Lys
 100 105

<210> 296
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 296

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Tyr Arg
 20 25 30

Trp Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Thr Pro Glu Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Asn Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
 85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 297
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 297

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Phe Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50 55 60
 Gly Gly Arg Ser Glu Ala Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Phe Asn Thr Tyr Pro
 85 90 95
 Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Leu Lys
 100 105

<210> 298
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 298

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Thr
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Ser
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Thr Leu Gln Thr Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asp Ser Tyr Pro
 85 90 95
 Phe Thr Phe Gly Pro Gly Ser Lys Val Asp Ile Lys
 100 105

<210> 299
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 299

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ile
 20 25 30

His Leu Ala Trp Phe Gln Lys Lys Pro Gly Lys Ala Pro Lys Ser Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Lys Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Glu Ser Tyr Pro
 85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
 100 105

<210> 300
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 300

Gln Asn Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro
 1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ala Ser
 20 25 30

Tyr Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu
 35 40 45

Met Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Ala Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 301
<211> 112
<212> PRT
<213> Homo sapiens

<400> 301

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 302
<211> 108
<212> PRT
<213> Homo sapiens

<400> 302

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Arg Asn
20 25 30

Asn Leu Ala Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Arg Leu
35 40 45

Ile Tyr His Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Pro Glu Thr Tyr Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 303

<211> 112

<212> PRT

<213> Homo sapiens

<400> 303

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Ser Gly Tyr His Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 304

<211> 108

<212> PRT

<213> Homo sapiens

<400> 304

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Thr Asn
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu
35 40 45

Met Tyr Gly Ala Tyr Lys Leu Gln Tyr Gly Val Pro Thr Lys Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Arg Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Gln Thr Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Leu Lys
100 105

<210> 305

<211> 108

<212> PRT

<213> Homo sapiens

<400> 305

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Ser Ile Thr Cys Arg Ala Ser Gln Val Ile Gly Asn
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu
35 40 45

Ile Tyr Gly Ala Ser His Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Ser Ser Ile Pro
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 306
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 306

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Met Ser Pro
 1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Lys Met
 20 25 30

Asn Leu Ala Trp Tyr Gln His Lys Leu Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Asn Trp Pro
 85 90 95

Phe His Phe Gly Pro Gly Thr Thr Val Asp Ile Lys
 100 105

<210> 307
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 307

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Asn
 20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Gln Leu Leu
 35 40 45

Ile Tyr Lys Thr Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ser Lys
100 105

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<210> 308
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 308

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ala Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Val Thr Cys Arg Ala Ser Gln Asp Ile Glu Asn
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Pro Lys Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

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<210> 309
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 309

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Ile Cys Arg Ala Ser Gln Asp Ile His Thr
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Thr Tyr Pro
85 90 95

Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 310

<211> 108

<212> PRT

<213> Homo sapiens

<400> 310

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
35 40 45

Ile Tyr Val Ala Ser Ser Leu Gln Asp Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 311

<211> 108

<212> PRT

<213> Homo sapiens

<400> 311

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
 1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Arg
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Phe
 35 40 45

Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Leu Arg Gly Leu Glu
 65 70 75 80

Pro Glu Asp Ser Ala Val Tyr Phe Cys Gln Gln Tyr Ala Thr Leu Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

<210> 312

<211> 108

<212> PRT

<213> Homo sapiens

<400> 312

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn
 20 25 30

Ala Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
 35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Thr Val Asp Ile Lys
100 105

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<210> 313
<211> 112
<212> PRT
<213> Homo sapiens
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<400> 313

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

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<210> 314
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 314

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Met Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn
20 25 30

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Asp Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu
 35 40 45

Ile Tyr Thr Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Gln Lys Asn Tyr Pro
 85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 315
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 315

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Tyr Val
 1 5 10 15

Gly Asp Arg Val Asn Ile Pro Cys Arg Ala Ser Gln Ser Val Asp Ser
 20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Lys Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Ser Val Ser Ser Leu Gln
 65 70 75 80

Pro Asp Asp Phe Val Thr Tyr Tyr Cys Gln Gln Tyr Lys Ser Phe Pro
 85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 316
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 316

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
 20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Gly Val Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 115 120 125

<210> 317

<211> 115

<212> PRT

<213> Homo sapiens

<400> 317

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
 20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

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[illegible]

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<210> 318
<211> 115
<212> PRT
<213> Homo sapiens
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<400> 318

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Val Leu Leu Asp Lys Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

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<210> 319
<211> 115
<212> PRT
<213> Homo sapiens
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<400> 319

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Val Leu Phe Asp Asn Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 320

<211> 9

<212> PRT

<213> Homo sapiens

<400> 320

Ser Ile Ala Ala Asp Arg Thr Asp Tyr
1 5

<210> 321

<211> 9

<212> PRT

<213> Homo sapiens

<400> 321

Ser Ile Ala Ala Ser Arg Thr Asp Tyr
1 5

<210> 322

<211> 9

<212> PRT

<213> Homo sapiens

<400> 322

Ser Ile Ala Ser Ala Gly Thr Asp His
1 5

<210> 323

<211> 9

<212> PRT

<213> Homo sapiens

<400> 323

Ser Ile Ala Ser Ala Arg Thr Asp Ser
1 5

<210> 324

<211> 112

<212> PRT

<213> Homo sapiens

<400> 324

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Gly Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 325

<211> 13

<212> PRT

<213> Homo sapiens

<400> 325

Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn Thr Val Asn
1 5 10

<210> 326

<211> 13

<212> PRT

<213> Homo sapiens

<400> 326

Ser Gly Ser Asn Ser Asn Val Gly Thr Lys Thr Val Asn
1 5 10

<210> 327

<211> 13

<212> PRT

<213> Homo sapiens

<400> 327

Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn Thr Val Asn
1 5 10

<210> 328

<211> 13

<212> PRT

<213> Homo sapiens

<400> 328

Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
1 5 10

<210> 329

<211> 13

<212> PRT

<213> Homo sapiens

<400> 329

Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys Thr Val Asn
1 5 10

<210> 330

<211> 13

<212> PRT

<213> Homo sapiens

<400> 330

Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys Thr Val Asn
1 5 10

<210> 331
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 331

Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn Asn Val Asn
 1 5 10

<210> 332
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 332

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 333
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 333

Ser Asn Asn Gln Arg Pro Ser
 1 5

<210> 334
<211> 7
<212> PRT
<213> Homo sapiens

<400> 334

Ser Asn Thr Gln Arg Pro Ser
1 5

<210> 335
<211> 7
<212> PRT
<213> Homo sapiens

<400> 335

Ser Asp Asp Gln Arg Pro Ser
1 5

<210> 336
<211> 7
<212> PRT
<213> Homo sapiens

<400> 336

Asn Ser Ser Gln Arg Pro Ser
1 5

<210> 337
<211> 7
<212> PRT
<213> Homo sapiens

<400> 337

Asn Asn Ile Gln Arg Pro Ser
1 5

<210> 338
<211> 7
<212> PRT
<213> Homo sapiens

<400> 338

Met Asn Tyr Glu Arg Pro Ser
1 5

<210> 339
<211> 7
<212> PRT
<213> Homo sapiens

<400> 339

Ser His His Arg Arg Pro Ser
1 5

<210> 340

<211> 112

<212> PRT

<213> Homo sapiens

<400> 340

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 341

<211> 11

<212> PRT

<213> Homo sapiens

<400> 341

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val
1 5 10

<210> 342

<211> 11

<212> PRT

<213> Homo sapiens

<400> 342

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu
 1 5 10

<210> 343
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 343

Ala Ala Trp Asp Asp Ser Leu Ser Gly Pro Val
 1 5 10

<210> 344
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 344

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 345
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 345

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln

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1				5					10						15
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

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<210> 346
<211> 110
<212> PRT
<213> Homo sapiens
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<400> 346

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1			5						10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ile	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		

100 105 110
 <210> 347
 <211> 110
 <212> PRT
 <213> Homo sapiens
 <400> 347
 Gln Ser Val Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys
 20 25 30
 Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu
 100 105 110
 <210> 348
 <211> 110
 <212> PRT
 <213> Homo sapiens
 <400> 348
 Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 349
<211> 112
<212> PRT
<213> Homo sapiens

<400> 349

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 350
<211> 110
<212> PRT
<213> Homo sapiens

<400> 350

Gln Ser Ala Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys
20 25 30

Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu
100 105 110

<210> 351

<211> 110

<212> PRT

<213> Homo sapiens

<400> 351

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 352
<211> 110
<212> PRT
<213> Homo sapiens

<400> 352

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 353
<211> 112
<212> PRT
<213> Homo sapiens

<400> 353

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

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Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 354

<211> 110

<212> PRT

<213> Homo sapiens

<400> 354

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 355

<211> 110

<212> PRT

<213> Homo sapiens

<400> 355

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn

20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110
 <210> 356
 <211> 117
 <212> PRT
 <213> Homo sapiens
 <400> 356
 Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Pro Ser
 50 55 60
 Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser
 65 70 75 80
 Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
 85 90 95
 Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr
 100 105 110
 Lys Leu Thr Val Leu

115

<210> 357
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 357

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 358
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 358

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 359
<211> 123
<212> PRT
<213> Homo sapiens

<400> 359

Phe Tyr Ser His Ser Ala Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala
1 5 10 15

Ala Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser
20 25 30

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly
35 40 45

Thr Ala Pro Lys Leu Leu Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly
50 55 60

Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu
65 70 75 80

Ala Ile Ser Gly Leu Gln Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala
85 90 95

Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro
115 120

<210> 360
<211> 110
<212> PRT
<213> Homo sapiens

<400> 360

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Ser Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys
20 25 30

Thr Val Asn Trp Tyr Gln Gln Phe Pro Arg Ala Ala Pro Lys Leu Leu
35 40 45

Ile His Asn Asn Ile Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Asp Asp Glu Gly Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 361
<211> 110
<212> PRT
<213> Homo sapiens

<400> 361

Gln Ser Ala Leu Thr Gln Pro Pro Ser Thr Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Met Asn Tyr Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Ser Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 362
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 362

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 363
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 363

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ala Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

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Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80

Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95

Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 364
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 364

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn
 20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 365
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 365

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro

100 105 110
 <210> 367
 <211> 112
 <212> PRT
 <213> Homo sapiens
 <400> 367
 Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Ser Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110
 <210> 368
 <211> 110
 <212> PRT
 <213> Homo sapiens
 <400> 368
 Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 369
<211> 131
<212> PRT
<213> Homo sapiens

<400> 369

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Arg Ser Ile Ala Ala Asp Arg Thr Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
115 120 125

Leu Ala Pro
130

<210> 370
<211> 131

133/197

<212> PRT

<213> Homo sapiens

<400> 370

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Ser Ile Ala Ser Ala Gly Thr Asp His Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125

Leu Ala Pro
 130

<210> 371

<211> 131

<212> PRT

<213> Homo sapiens

<400> 371

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Ser Ile Ala Ser Ala Arg Thr Asp Ser Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125

Leu Ala Pro
 130

<210> 372
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 372

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Ser Ile Ala Ala Ser Arg Thr Asp Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
115 120 125

Leu Ala Pro
130

<210> 373
<211> 20
<212> PRT
<213> Homo sapiens

<400> 373

Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
20

<210> 374
<211> 20
<212> PRT
<213> Homo sapiens

<400> 374

Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Ile Asp Val
20

<210> 375
<211> 20
<212> PRT
<213> Homo sapiens

<400> 375

Glu Gly Ser Ala Arg Val Val Lys Gly Pro Ala Arg Tyr Phe Tyr Tyr
1 5 10 15

Tyr Met Asp Leu
20

<210> 376
<211> 20
<212> PRT
<213> Homo sapiens

<400> 376

Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Ala
20

<210> 377

<211> 9

<212> PRT

<213> Homo sapiens

<400> 377

Gln Gln Thr Tyr Ser Thr Pro Arg Thr
1 5

<210> 378

<211> 9

<212> PRT

<213> Homo sapiens

<400> 378

Gln Gln Ser Tyr Ser Thr Pro Arg Thr
1 5

<210> 379

<211> 9

<212> PRT

<213> Homo sapiens

<400> 379

Gln Gln Ser Asn Ser Ile Pro Arg Thr
1 5

<210> 380

<211> 9

<212> PRT

<213> Homo sapiens

<400> 380

Gln Gln Ser Tyr Thr Thr Pro Arg Thr
1 5

<210> 381

<211> 7

<212> PRT

<213> Homo sapiens

<400> 381

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 382

<211> 7

<212> PRT

<213> Homo sapiens

<400> 382

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 383

<211> 7

<212> PRT

<213> Homo sapiens

<400> 383

Ala Ala Tyr Thr Leu Gln Ser
1 5

<210> 384

<211> 7

<212> PRT

<213> Homo sapiens

<400> 384

Ser Ala Ser Ser Leu Gln Ser
1 5

<210> 385

<211> 7

<212> PRT

<213> Homo sapiens

<400> 385

Asp Ala Ser Thr Leu Gln Asn
1 5

<210> 386

<211> 7

<212> PRT

<213> Homo sapiens

<400> 386

Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 387
<211> 7
<212> PRT
<213> Homo sapiens

<400> 387

Gly Ala Ser Ser Leu Gln Ser
1 5

<210> 388
<211> 11
<212> PRT
<213> Homo sapiens

<400> 388

Arg Ala Ser Gln Thr Ile Lys Asn Tyr Leu Asn
1 5 10

<210> 389
<211> 11
<212> PRT
<213> Homo sapiens

<400> 389

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 390
<211> 11
<212> PRT
<213> Homo sapiens

<400> 390

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Asn
1 5 10

<210> 391
<211> 11
<212> PRT
<213> Homo sapiens

<400> 391

Arg Ala Ser Arg Gly Val Ser Thr Ser Leu Asn
1 5 10

<210> 392
<211> 11

<212> PRT
<213> Homo sapiens

<400> 392

Arg Ala Ser Gln Thr Ile Ser Lys Asn Leu Asn
1 5 10

<210> 393
<211> 11
<212> PRT
<213> Homo sapiens

<400> 393

Arg Ala Ser Arg Arg Ile Gly Thr Tyr Leu Asn
1 5 10

<210> 394
<211> 11
<212> PRT
<213> Homo sapiens

<400> 394

Arg Ala Ser Gln Ser Ile Arg Ser Tyr Leu Asn
1 5 10

<210> 395
<211> 11
<212> PRT
<213> Homo sapiens

<400> 395

Arg Ala Ser Gln Thr Ile Asn Ser Tyr Leu Asn
1 5 10

<210> 396
<211> 11
<212> PRT
<213> Homo sapiens

<400> 396

Arg Ala Ser Gln Ser Ile Asn Arg Trp Leu Ala
1 5 10

<210> 397
<211> 142
<212> PRT
<213> Homo sapiens

<400> 397

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr
 100 105 110

Tyr Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 398

<211> 142

<212> PRT

<213> Homo sapiens

<400> 398

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr
 100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 399
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 399

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr
 100 105 110

Tyr Tyr Tyr Met Asp Ala Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
130 135 140

<210> 400
<211> 108
<212> PRT
<213> Homo sapiens

<400> 400

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val
1 5 10 15

Gly Asp Arg Val Ile Ile Thr Cys Arg Ala Ser Gln Thr Ile Lys Asn
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 401
<211> 108
<212> PRT
<213> Homo sapiens

<400> 401

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

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Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 402
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 402

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Tyr Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Arg Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Ile Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Thr Val Glu Ile Arg
 100 105

<210> 403
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 403

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val

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<210> 404
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 404

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Leu	Ser	Ala	Ser	Val	
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser
			20					25					30		
Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro
				85					90					95	
Arg	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys				

100

105

<210> 405
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 405

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 406
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 406

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Val Ser Thr
 20 25 30

Ser Leu Asn Trp Tyr Gln Ile Lys Pro Glu Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
100 105

<210> 407
<211> 108
<212> PRT
<213> Homo sapiens

<400> 407

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 408
<211> 108
<212> PRT
<213> Homo sapiens

<400> 408

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Ser Lys
20 25 30

Asn Leu Asn Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Gly Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Glu
100 105

<210> 409
<211> 108
<212> PRT
<213> Homo sapiens

<400> 409

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 410
<211> 108
<212> PRT
<213> Homo sapiens

<400> 410

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 411
<211> 108
<212> PRT
<213> Homo sapiens

<400> 411

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

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Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 412
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 412

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 413
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 413

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser

20	25	30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu		
35	40	45
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser		
50	55	60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln		
65	70	75
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro		
85	90	95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys		
100	105	
<210> 414		
<211> 108		
<212> PRT		
<213> Homo sapiens		
<400> 414		
Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val		
1	5	10
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser		
20	25	30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu		
35	40	45
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser		
50	55	60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln		
65	70	75
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro		
85	90	95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys		
100	105	
<210> 415		

<211> 108
<212> PRT
<213> Homo sapiens

<400> 415

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 416
<211> 108
<212> PRT
<213> Homo sapiens

<400> 416

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 417
<211> 108
<212> PRT
<213> Homo sapiens

<400> 417

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Thr Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Arg Ile Gly Thr
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Ala Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asp Ala Ser Thr Leu Gln Asn Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Thr Glu Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Val Ala Thr Tyr Phe Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 418
<211> 108
<212> PRT
<213> Homo sapiens

<400> 418

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Ser
20 25 30

<213> Homo sapiens

<400> 420

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Ser
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu
 35 40 45

Ile Phe Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 421

<211> 108

<212> PRT

<213> Homo sapiens

<400> 421

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Asn Arg
 20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 422
<211> 11
<212> PRT
<213> Homo sapiens

<400> 422

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser
1 5 10

<210> 423
<211> 11
<212> PRT
<213> Homo sapiens

<400> 423

Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser Ser
1 5 10

<210> 424
<211> 11
<212> PRT
<213> Homo sapiens

<400> 424

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala Ser
1 5 10

<210> 425
<211> 11
<212> PRT
<213> Homo sapiens

<400> 425

Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile Ser
1 5 10

<210> 426
<211> 14
<212> PRT
<213> Homo sapiens

<400> 426

Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr Ser His Val Ser
1 5 10

<210> 427
<211> 13
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<213> Homo sapiens

<400> 427

Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro Val Asn
1 5 10

<210> 428
<211> 11
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<213> Homo sapiens

<400> 428

Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr Ser
1 5 10

<210> 429
<211> 11
<212> PRT
<213> Homo sapiens

<400> 429

Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala Ser
1 5 10

<210> 430
<211> 14
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<213> Homo sapiens

<400> 430

Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn Arg Val Ser
1 5 10

<210> 431
<211> 11
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<213> Homo sapiens

<400> 431

Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala Ser
1 5 10

<210> 432
<211> 13
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<213> Homo sapiens

<400> 432

Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn Thr Val Asn
1 5 10

<210> 433
<211> 11
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<213> Homo sapiens

<400> 433

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly Ser .
1 5 10

<210> 434
<211> 7
<212> PRT
<213> Homo sapiens

<400> 434

Gln Asp Arg Lys Arg Pro Ser
1 5

<210> 435
<211> 7
<212> PRT
<213> Homo sapiens

<400> 435

Gln Asp Lys Lys Arg Pro Ser
1 5

<210> 436
<211> 7
<212> PRT
<213> Homo sapiens

<400> 436

Ala Val Thr Asn Arg Pro Ser
1 5

<210> 437
<211> 7
<212> PRT
<213> Homo sapiens

<400> 437

Ser Asn Asn Gln Arg Pro Ser
1 5

<210> 438

<211> 7

<212> PRT

<213> Homo sapiens

<400> 438

Gln Asn Arg Lys Arg Pro Ser
1 5

<210> 439

<211> 112

<212> PRT

<213> Homo sapiens

<400> 439

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Arg His
20 25 30

Asn Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 440

<211> 7

<212> PRT

<213> Homo sapiens

<400> 440

Gln Ser Ser Gln Arg Pro Ser
1 5

<210> 441
<211> 7
<212> PRT
<213> Homo sapiens

<400> 441

Glu Val Ser Asn Arg Pro Ser
1 5

<210> 442
<211> 112
<212> PRT
<213> Homo sapiens

<400> 442

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 443
<211> 7
<212> PRT
<213> Homo sapiens

<400> 443

Arg Asn Asn Gln Arg Pro Ser

1 5

<210> 444
<211> 9
<212> PRT
<213> Homo sapiens

<400> 444

Gln Ser Trp Asp Ser Ser Ser Val Ile
1 5

<210> 445
<211> 9
<212> PRT
<213> Homo sapiens

<400> 445

Gln Ala Trp Asp Ser Ser Ser Val Ile
1 5

<210> 446
<211> 9
<212> PRT
<213> Homo sapiens

<400> 446

Gln Thr Trp Asp Ser Ser Ser Val Ile
1 5

<210> 447
<211> 9
<212> PRT
<213> Homo sapiens

<400> 447

Gln Thr Trp Asp Arg Ser Ser Val Val
1 5

<210> 448
<211> 10
<212> PRT
<213> Homo sapiens

<400> 448

Gln Ser Tyr Thr Thr Thr Gly Thr Leu Ile
1 5 10

<210> 449

<211> 9
<212> PRT
<213> Homo sapiens

<400> 449

Ser Ser Tyr Thr Asn Ser Ser Val Ile
1 5

<210> 450
<211> 9
<212> PRT
<213> Homo sapiens

<400> 450

Gln Ala Trp Asp Asn Ser Ala Val Ile
1 5

<210> 451
<211> 8
<212> PRT
<213> Homo sapiens

<400> 451

Gln Thr Trp Asp Thr Ser Ile Leu
1 5

<210> 452
<211> 9
<212> PRT
<213> Homo sapiens

<400> 452

Ser Ser Tyr Arg Asn Thr Gly Pro Leu
1 5

<210> 453
<211> 17
<212> PRT
<213> Homo sapiens

<400> 453

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 454

<211> 10
 <212> PRT
 <213> Homo sapiens

<400> 454

Asn Ser Tyr Thr Asn Ser Ala Thr Leu Val
 1 5 10

<210> 455
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 455

Phe Tyr Ser His Ser Ala Gln Ser Ala Leu Thr Gln Pro Pro Ser Val
 1 5 10 15

Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu
 20 25 30

Leu Gly Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro
 50 55 60

Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile
 65 70 75 80

Ser Gly Thr Gln Ala Leu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp
 85 90 95

Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105 110

Ser Gln Pro Lys Ala Ala Pro
 115

<210> 456
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 456

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 457
<211> 106
<212> PRT
<213> Homo sapiens

<400> 457

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 458
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 458

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
 20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 459
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 459

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
 20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
 65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 460
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 460

Phe Tyr Ser His Ser Ala Gln Ser Glu Leu Thr Gln Pro Pro Ser Val
 1 5 10 15

Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys
 20 25 30

Leu Arg Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro
 50 55 60

Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile
 65 70 75 80

Ser Gly Thr Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp
 85 90 95

Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105 110

Gly Gln Pro Lys Ala Ala Pro
 115

<210> 461
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 461

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln

167/197

100

105

<210> 463
<211> 106
<212> PRT
<213> Homo sapiens

<400> 463

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 464
<211> 106
<212> PRT
<213> Homo sapiens

<400> 464

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 465
<211> 107
<212> PRT
<213> Homo sapiens

<400> 465

Gln Ser Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg
1 5 10 15

Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro
20 25 30

Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly
50 55 60

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ala
65 70 75 80

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Ser Ser Val
85 90 95

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 466
<211> 106
<212> PRT
<213> Homo sapiens

<400> 466

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
 35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 467

<211> 106

<212> PRT

<213> Homo sapiens

<400> 467

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 468
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 468

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His
 1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala
 20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
 35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe
 85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 469
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 469

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr
 20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu
 35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr
85 90 95

Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 470
<211> 106
<212> PRT
<213> Homo sapiens

<400> 470

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 471
<211> 106
<212> PRT
<213> Homo sapiens

<400> 471

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr

20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
 35 40 45
 Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105
 <210> 472
 <211> 106
 <212> PRT
 <213> Homo sapiens
 <400> 472
 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala
 20 25 30
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45
 Gln Asp Arg Lys Arg Pro Ser Asn Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Val Met
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 473

<211> 106
<212> PRT
<213> Homo sapiens

<400> 473

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 474
<211> 106
<212> PRT
<213> Homo sapiens

<400> 474

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 475
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 475

Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr
 20 25 30

Ser His Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
 35 40 45

Ile Ile Tyr Ala Val Thr Asn Arg Pro Ser Gly Val Ser Ala Arg Phe
 50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80

Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr
 85 90 95

Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val Leu
 100 105 110

<210> 476
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 476

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His
 1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala
 20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 477
<211> 106
<212> PRT
<213> Homo sapiens

<400> 477

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 478
<211> 106
<212> PRT

<213> Homo sapiens

<400> 478

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 479

<211> 109

<212> PRT

<213> Homo sapiens

<400> 479

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr
20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu
35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr
 85 90 95

Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 480
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 480

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln
 65 70 75 80

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Ala
 85 90 95

Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 481
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 481

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
 20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr

35

40

45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 482

<211> 106

<212> PRT

<213> Homo sapiens

<400> 482

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
 20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
 65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 483

<211> 106

<212> PRT

<213> Homo sapiens

<400> 483

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 484

<211> 106

<212> PRT

<213> Homo sapiens

<400> 484

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
 20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Thr Met
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
 85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 485
<211> 10
<212> PRT
<213> Homo sapiens

<400> 485

Val Gly Ile Ser Thr Tyr Gly Phe Asp Leu
1 5 10

<210> 486
<211> 10
<212> PRT
<213> Homo sapiens

<400> 486

Val Gly Met Ala Thr Tyr Gly Phe Asp Ile
1 5 10

<210> 487
<211> 10
<212> PRT
<213> Homo sapiens

<400> 487

Val Gly Met Ser Asn Tyr Gly Phe Asp Phe
1 5 10

<210> 488
<211> 10
<212> PRT
<213> Homo sapiens

<400> 488

Val Gly Met Ser Thr Tyr Gly Phe Asp Lys
1 5 10

<210> 489
<211> 10
<212> PRT
<213> Homo sapiens

<400> 489

Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile
1 5 10

<210> 490
<211> 132
<212> PRT
<213> Homo sapiens

<400> 490

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Gly Met Ala Thr Tyr Gly Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro
130

<210> 491
<211> 132
<212> PRT
<213> Homo sapiens

<400> 491

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Val Gly Met Ser Asn Tyr Gly Phe Asp Phe Trp Gly Gln Gly
 100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125

Pro Leu Ala Pro
 130

<210> 492
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 492

Met Gln Ala Leu Gln Thr Leu Thr
 1 5

<210> 493
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 493

Met Gln Ala Leu Arg Ala Ile Thr
 1 5

<210> 494
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 494

Met Gln Ala Leu Gln Ala Ile Thr

1

5

<210> 495

<211> 8

<212> PRT

<213> Homo sapiens

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Met Gln Ala Leu Gln Ser Pro Thr

1

5

<210> 496

<211> 8

<212> PRT

<213> Homo sapiens

<400> 496

Met Gln Ala Leu Gln Ser Ile Thr

1

5

<210> 497

<211> 7

<212> PRT

<213> Homo sapiens

<400> 497

Met Gly Ser Asn Arg Ala Ser

1

5

<210> 498

<211> 7

<212> PRT

<213> Homo sapiens

<400> 498

Leu Gly Ser His Arg Ala Ser

1

5

<210> 499

<211> 7

<212> PRT

<213> Homo sapiens

<400> 499

Phe Gly Ser Asn Arg Ala Ser

1

5

<210> 500

<211> 132
 <212> PRT
 <213> Homo sapiens

<400> 500

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Val Gly Ile Ser Thr Tyr Gly Phe Asp Leu Trp Gly Gln Gly
 100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125

Pro Leu Ala Pro
 130

<210> 501
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 501

Arg Ser Ser Gln Ser Leu Leu His Ser Thr Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 502
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 502

Arg Ser Ser Gln Ser Leu Leu His Gly Asn Gly Asn Asn Tyr Leu Asp
1 5 10 15

<210> 503
<211> 16
<212> PRT
<213> Homo sapiens

<400> 503

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 504
<211> 16
<212> PRT
<213> Homo sapiens

<400> 504

Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr His Tyr Leu Asp
1 5 10 15

<210> 505
<211> 16
<212> PRT
<213> Homo sapiens

<400> 505

Arg Ser Ser Gln Ser Leu Leu Asn Ile Asp Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 506
<211> 16
<212> PRT
<213> Homo sapiens

<400> 506

Arg Ser Ser Gln Ser Leu Leu His Arg Asn Gly Tyr Asn Phe Leu Asp
1 5 10 15

<210> 507
<211> 16
<212> PRT
<213> Homo sapiens

<400> 507

Arg Ser Ser Gln Ser Leu Arg His Asn Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 508
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 508

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 509
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 509

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60

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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Gly Phe Asp Lys Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro
130

<210> 510
<211> 132
<212> PRT
<213> Homo sapiens

<400> 510

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro
130

<210> 511
<211> 112
<212> PRT
<213> Homo sapiens

<400> 511

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 512
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807A-M0028-B02

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X = S or G

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = V or I

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = L, H or F

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = Y, N or K

<400> 512

Xaa Xaa Leu Xaa Asp Xaa
1 5

<210> 513
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807B-M0004-A03

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = A or S

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = D, S or A

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = R or G

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X = Y, H or S

<400> 513

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa
1 5

<210> 514
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity

matured clones of 807B-M0004-H03

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X = E or D

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = G or R

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = A, S or V

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = G, R or A

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> X = V or F

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X = G or A

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X = P or R

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> X = A, P or R

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> X = Y or H

<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> X = Y or F

<220>
<221> misc_feature
<222> (18)..(18)
<223> Xaa can be any naturally occurring amino acid

<220>

<221> MISC_FEATURE
<222> (20)..(20)
<223> X = V, L or A

<400> 514

Xaa Xaa Ser Xaa Xaa Val Xaa Lys Xaa Xaa Xaa Arg Xaa Xaa Tyr Tyr
1 5 10 15

Tyr Xaa Asp Xaa
20

<210> 515
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807B-M0009-F06

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<221> MISC_FEATURE
<222> (3)..(3)
<223> X = M or I

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = S or A

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = T or N

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> X = A or G

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X = I, L, F or K

<400> 515

Val Gly Xaa Xaa Xaa Tyr Xaa Phe Asp Xaa
1 5 10

<210> 516
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807B-M0009-F06

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = V or I

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = L, H or F

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = K, Y or N

<400> 516

Gly Xaa Leu Xaa Asp Xaa
1 5

<210> 517
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus amino acid sequence of the CDR3 regions of affinity
matured clones of 807A-M0004-A03

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = S or A

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = S or A

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = R or G

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X = H or Y

<400> 517

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa
1 5

<210> 518
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Amino acid sequence of the VL chains of the Germline-
corrected
antibodies

<400> 518

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 519
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Amino acid sequence of the CL chains of the Germline-
corrected
antibodies

<400> 519

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 520
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Amino acid sequence of the VL chains of the Germline-
corrected
antibodies

<400> 520

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 521
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Amino acid sequence of the CL chains of the Germline-
corrected
antibodies

<400> 521

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 522
<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 522

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
1 5 10

<210> 523

<211> 106

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 523

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 524

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 524

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 525

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 525

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
1 5 10

<210> 526

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 526

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
1 5 10

<210> 527

<211> 106

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 527

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105